



Psiber Data eXport

User Manual

Disclaimer

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For more information on WireXpert or eXport, please contact Psiber at wireXpert@psiberdata.com.

Minimum system requirements for eXport:

- Microsoft Windows® XP/7/8, 32-bit
- Intel Core 2 Duo, 2Ghz
- 200MB of free disk space for installation
- 1GB of RAM
- Microsoft .NET framework

Recommended system requirements:

- Microsoft Windows® XP/7/8, 64-bit
- Intel Core i3, 2.4Ghz and above
- 4GB of RAM

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Chapter 1 - Introduction

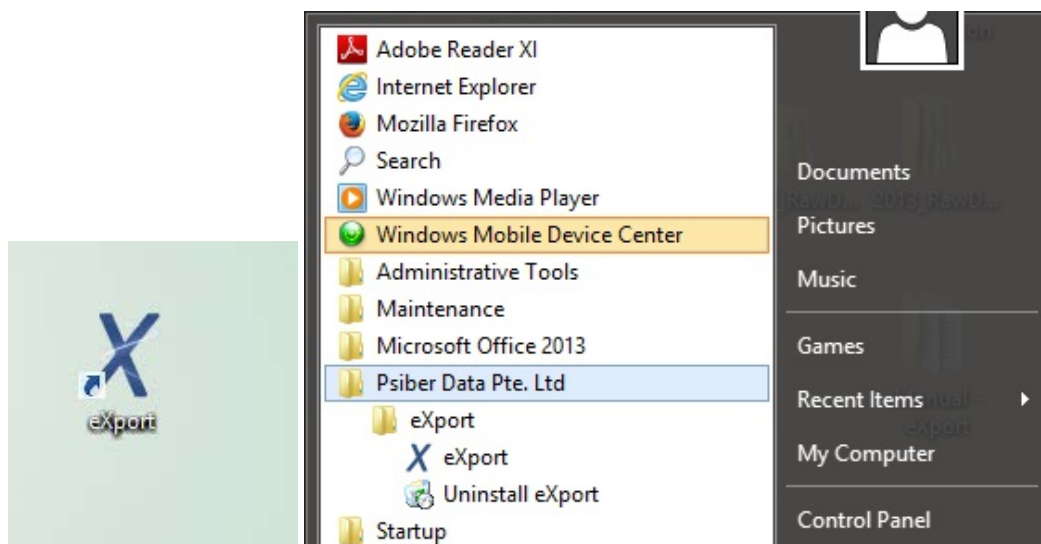
Please ensure Psiber Data eXport has been installed into your workstation before you proceed further. Please refer to *Installation Guide* for detailed instructions on how to obtain and install eXport.

eXport is a software programmed to work seamlessly with Psiber Data's WireXpert WX-series. It is designed to generate reports from test results obtained from WireXpert units or the standard OTDR *.SOR file, and capable of exporting to the commonly used [*.CSV and *.PDF format](#) for data archiving. The software has undergone numerous qualitative and functional tests to ensure the latest version meets the latest industrial standards and trend requirements.

This manual will only contain information and instructions on how to use eXport software. Please refer to User Manual and Guides for WireXpert for device help.

Running the Program

1. Double click on the "eXport" shortcut icon on your desktop or go to the Start Menu > Psiber Data Pte. Ltd > eXport and click on the eXport icon to start the program.




2. The program will start with the version/build number indicated.

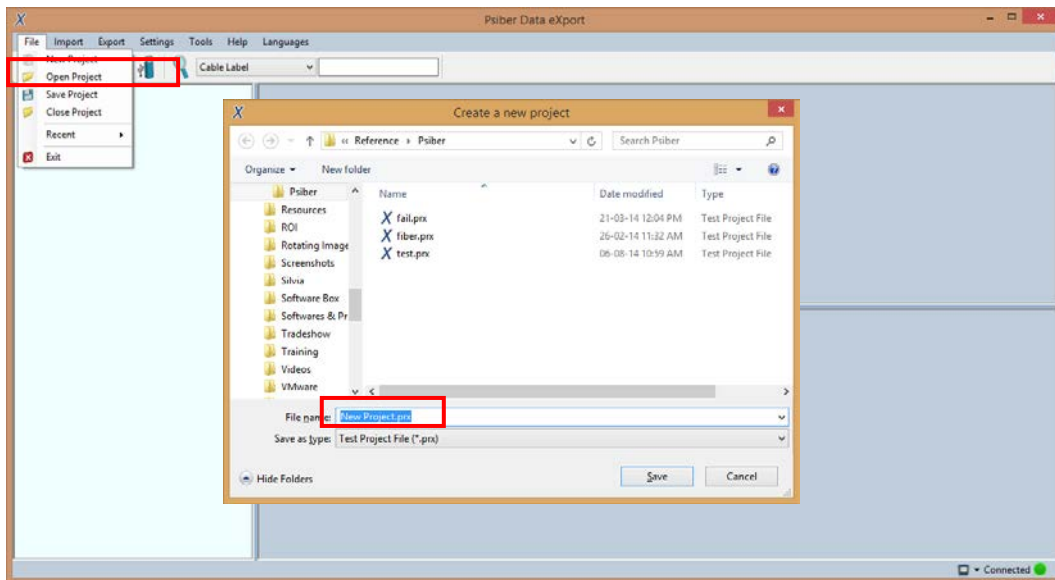


Chapter 2 – Project Management

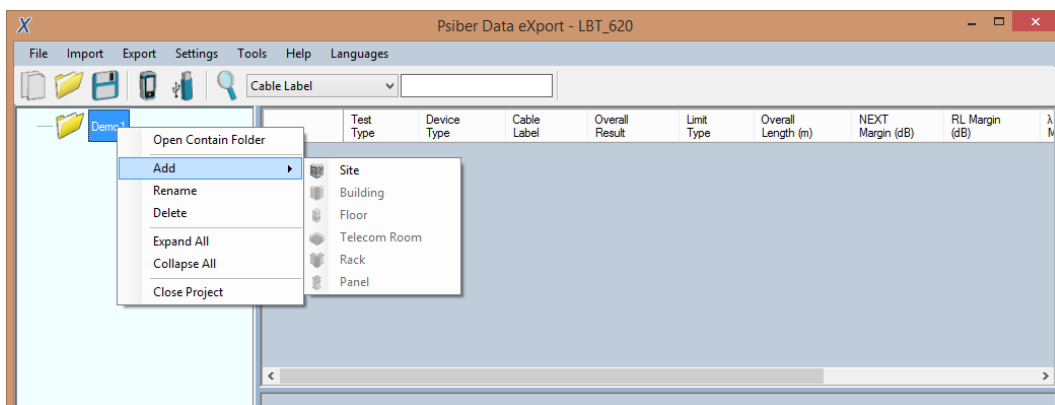
File Management

Creating a New Project

1. Go to File > New Project or click the  “New” icon to create a new project.




2. Right clicking on the new project that is created;



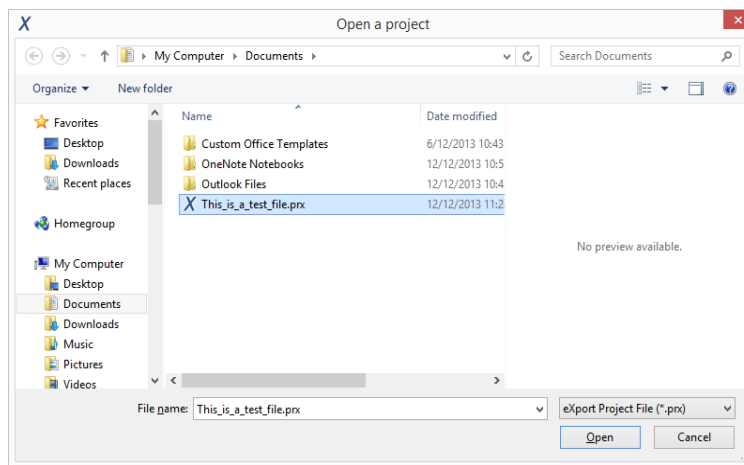
- Open Containing Folder – Opens file directory project file is saved in.
- Add (Sub-items to be added in hierarchal order)
 - Site – Adds a new site to the project.
 - Building - Adds a new building sub-item to the selected site.
 - Floor – Adds a new floor sub-item to the selected building.
 - Room – Adds a new room sub-item to the selected floor.
 - Rack – Adds a new rack sub-item to the selected room.
 - Panel – Adds a new panel sub-item to the selected rack.

- Rename – Renames the selected item.
- Delete – Deletes the selected item.
- Expand All / Collapse All – Expands or collapses the items and sub-items in the project.
- Close Project – Closes the selected project

Opening an Existing Project

1. Go to File > Open or click the  “Open” icon to open an existing project.

Locate your project (*.prx) file and click ‘Open’ to proceed.



Importing

Test Results from Device

1. Please ensure WireXpert is connected to your workstation via an USB cable.




2. You may be prompted to install Microsoft Windows Mobile Device Center.

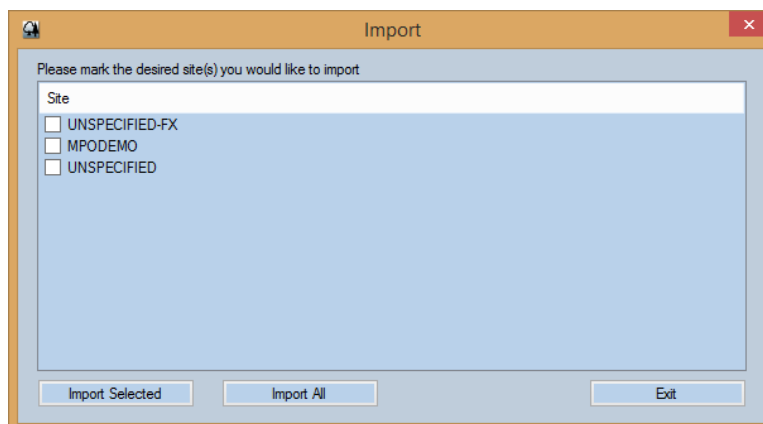
Click 'Accept' to proceed installing the necessary drivers.



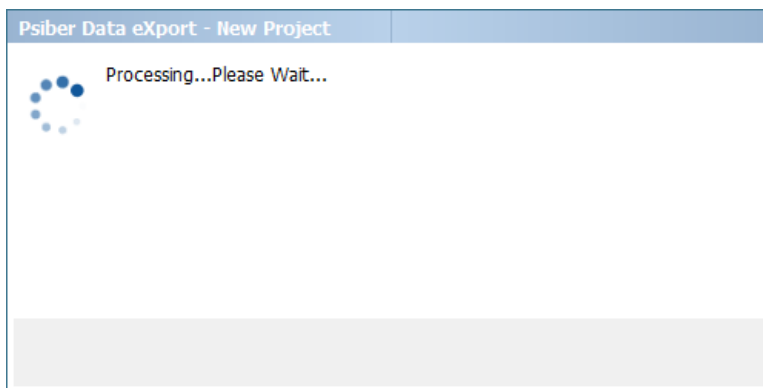
3. Status bar will indicate "Connected" once your workstation is linked to the Device.



4. Go to Import > Device or click the  "Device" icon.
5. Select the Test Results you wish to import and click 'Import Selected' to proceed.
Click 'Import All' to import all test results.




- Depending on number of saved results, eXport may take longer to import.

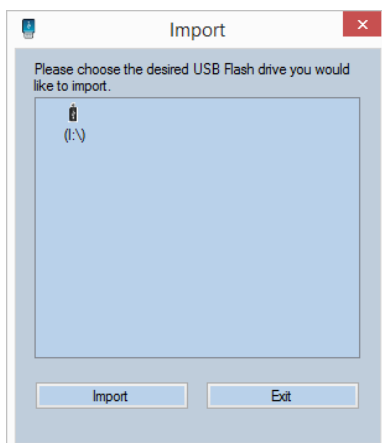


- Status bar will indicate “Transferring” during the import.

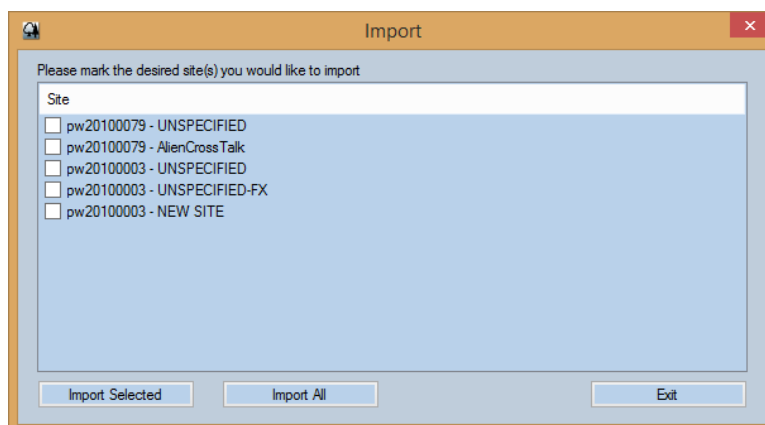


Test Results from USB Flash Drive

- Go to Import > Device or click the  “USB Flash Drive” icon.
- Select the Drive you wish to import the Test Result from. Click “Import” to proceed.



- Select the desired site(s) to import and click “Import Selected” or click “Import all” to import all sites.

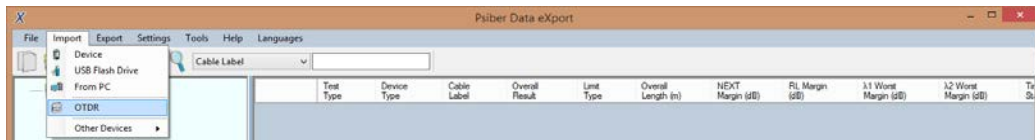


- Status bar will indicate “Transferring” during the import.

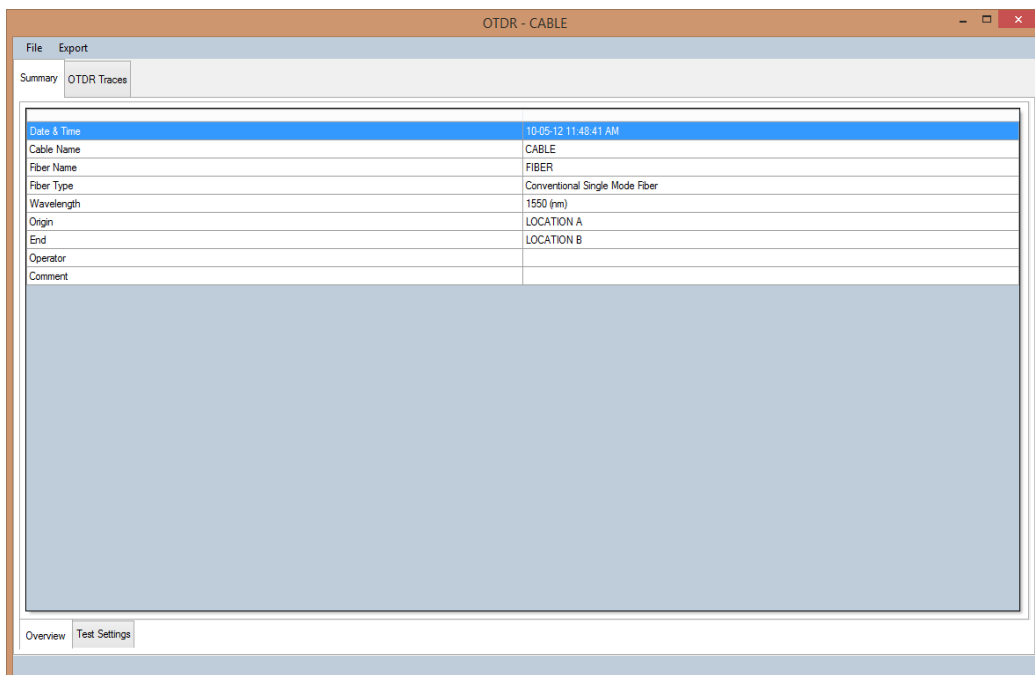
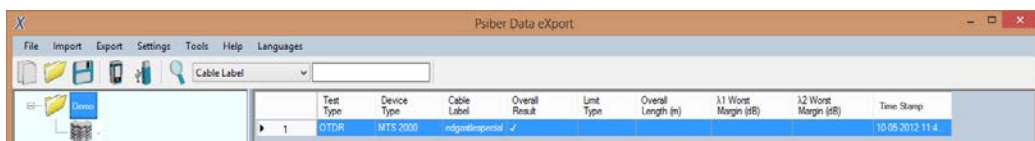


OTDR Test Results from SOR Files

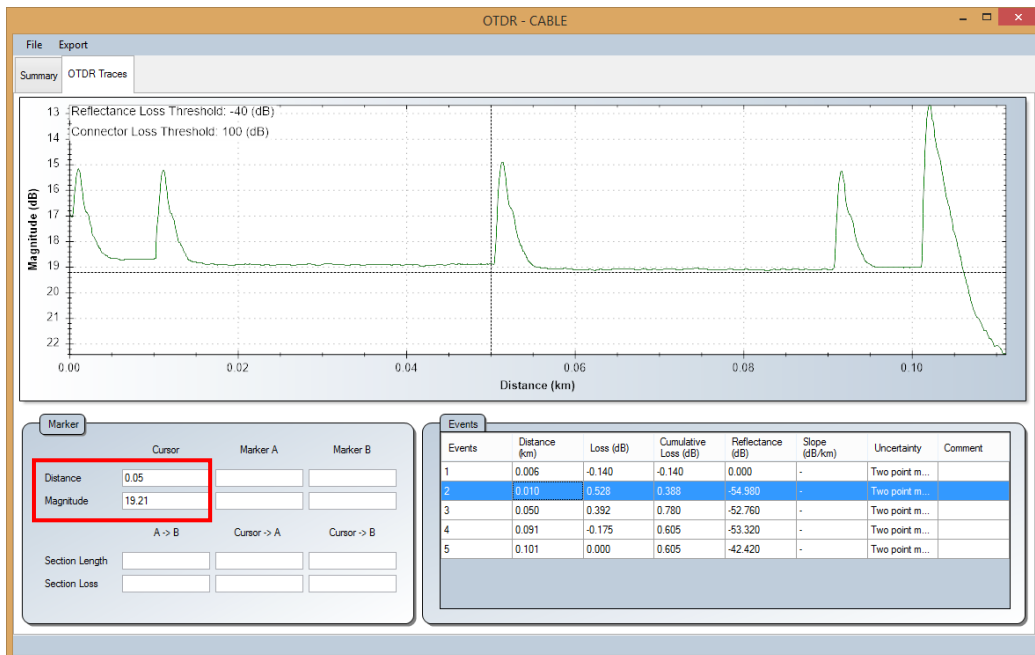
- Go to Import > OTDR to import *.SOR files.



- Locate the file and click “Open” to begin import.
- Double click the test result to view the detail test results.

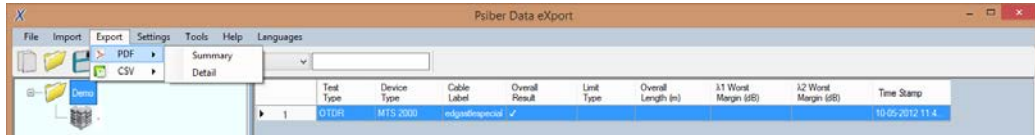


4. Move mouse cursor over chart in detailed view “OTDR Traces” to view distance over magnitude results.

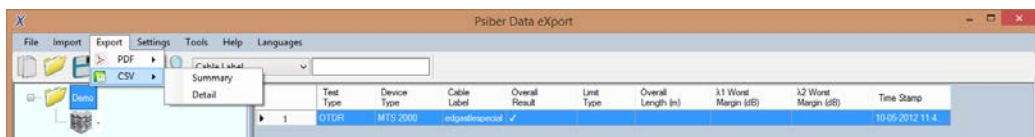


Exporting the Test Results

1. Go to Export > PDF to export selected test report in *.PDF format.



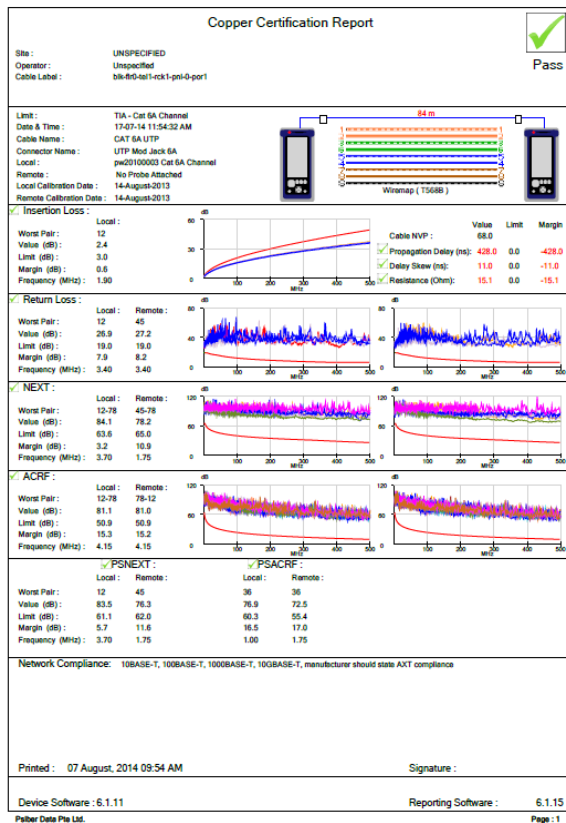
Go to Export > CSV to export selected test report in *.CSV format.



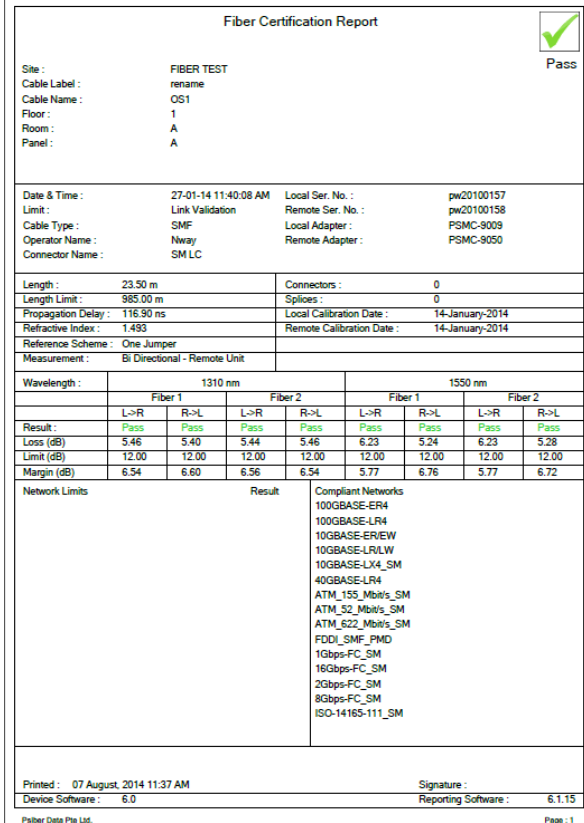
- Summary – Generates summarized result(s) listing only the basic information. Generally used to tabulate report for entire project.

| Summary Report | | | | | |
|-----------------------------|--------|------------|------------------|----------------------|----------------------|
| Cable Label | Result | Length (m) | NEXT Margin (dB) | Limit | Date & Time |
| blk-flr0-tel1-rok2-pnl-2-po | | 84 | 3.4 | TIA - Cat 6A Channel | 17-07-14 11:55:09 AM |
| Total for Selected Reports | | Pass | Fail | Length (m) | |
| Copper | | 1 | 0 | 84 | |

- Detail – Generates full testing result consisting of all tested parameters, plots, test settings and device information of individual point.

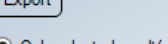


Typical Copper Certification Report (Detail)



Typical Fiber Certification Report (Detail)

2. Select “Only selected result(s)” for desired results or “All result(s)” for all results that has been loaded. and click ‘OK’ to proceed.



Export

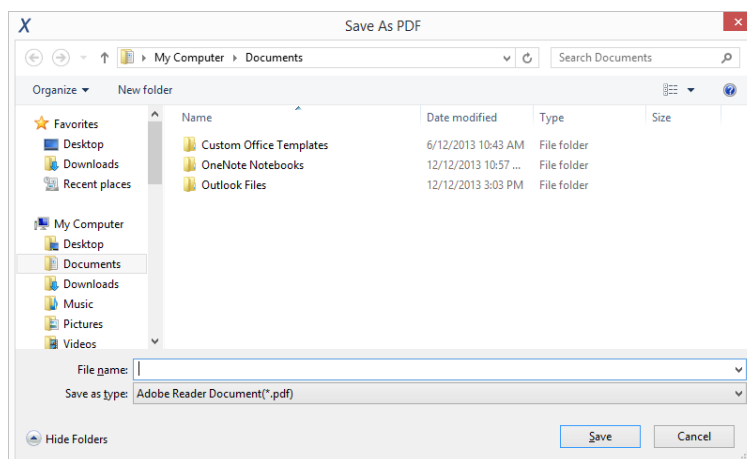
☒ Only selected result(s)

☐ All result(s)

☐ Save each record as individual PDF

OK Cancel

3. Choose directory to save PDF or CSV file, enter file name and click 'Save' to proceed.

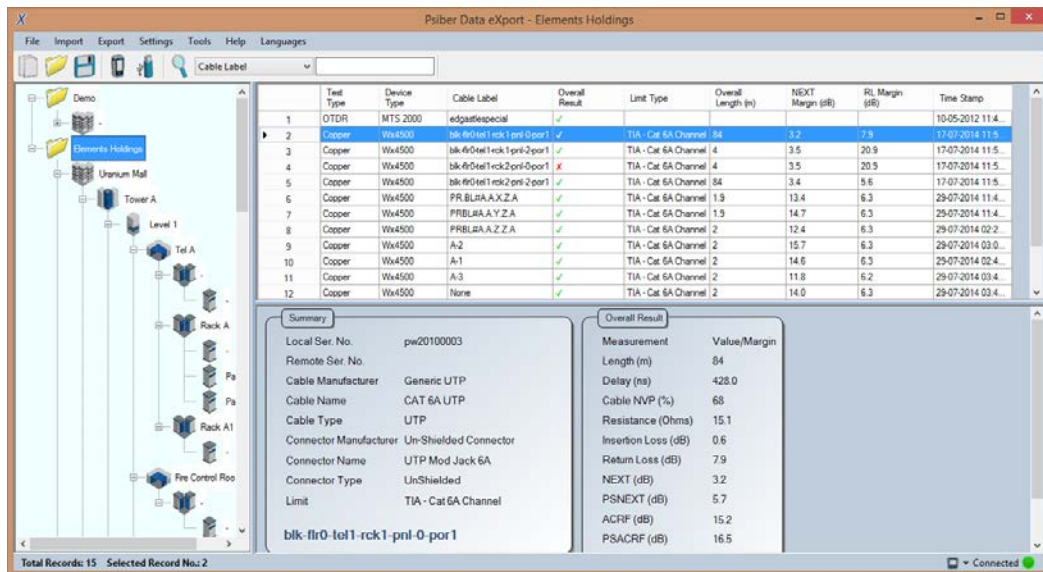


Note: When Saving Phase Data option is enabled in the Lab Options, exported CSV file can be used to generate plots for phase information.

Chapter 3: Data Management

Viewing the Test Results

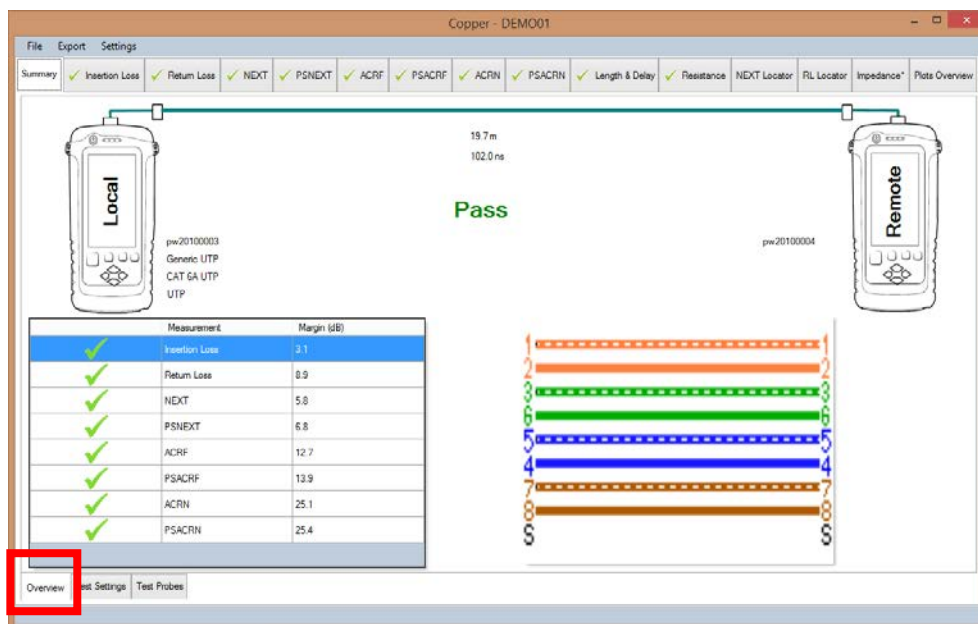
1. After importing test results, summarised data will be displayed.
Click on the Project name to display all test results.
Click on the Site name to display test results saved within the site.



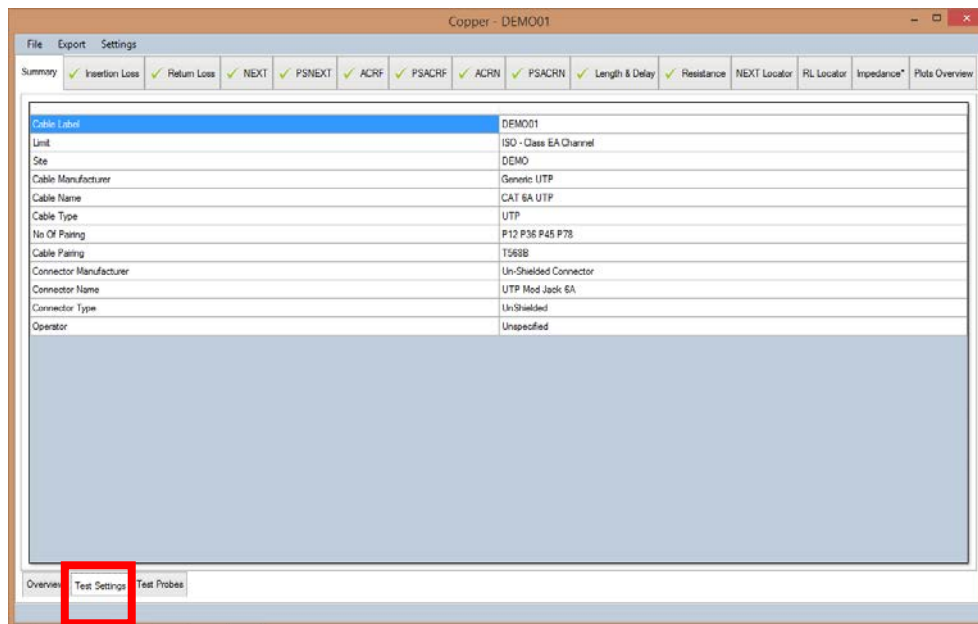
Legend

✓ Pass
 ✓* Marginal Pass
 ✗ Fail
 ✗* Marginal Fail

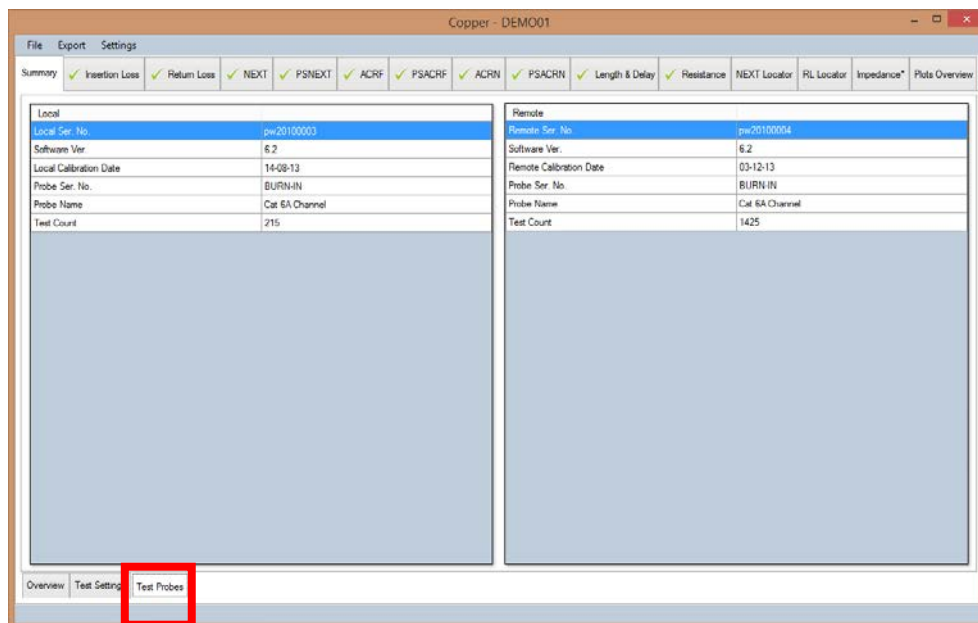
- Double click view more comprehensive information of the test result.



The 'Overview' tab displays the summary of the selected results.

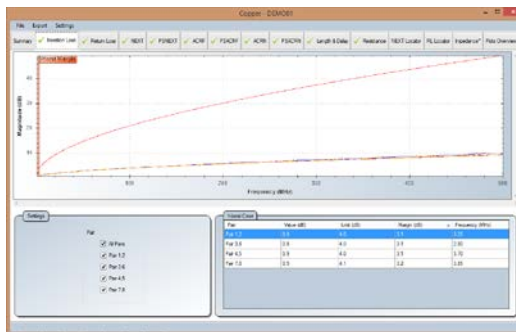


The 'Test Settings' tab displays the configurations used for the selected results.

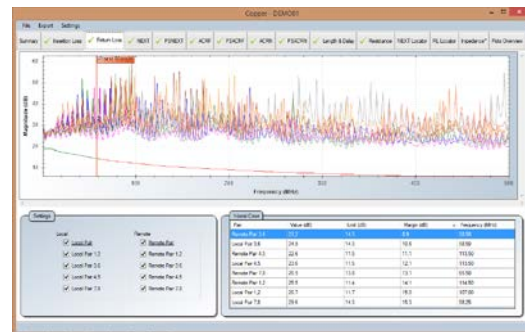


The 'Test Probe' tab displays information on the hardware used to obtain the results.

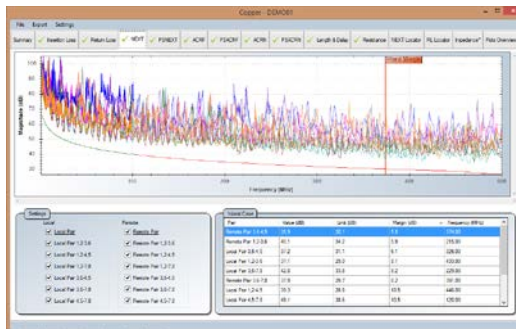
- Click on the individual tab to display plots, worst marker and other detailed information. Use the scroll wheel of the mouse on the plots to zoom in/out the results, and right click for more in-plot options.



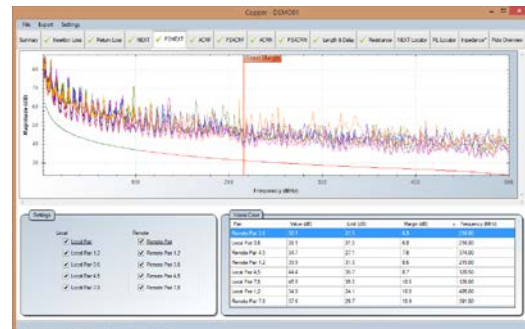
Insertion Loss



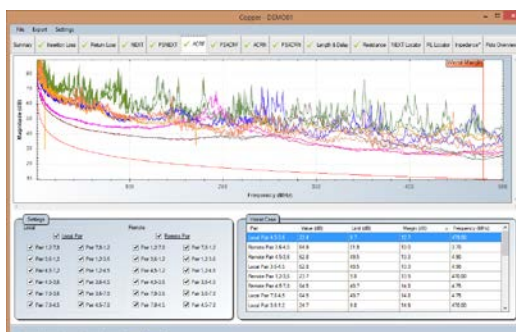
Return Loss



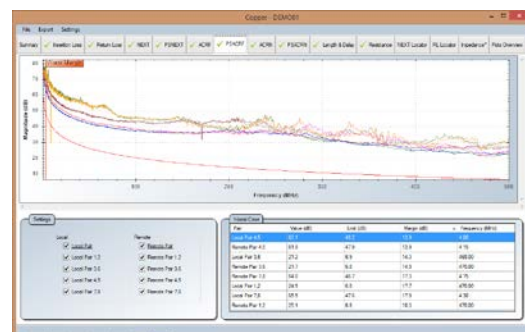
NEXT



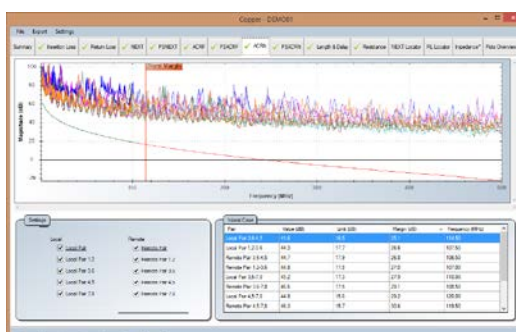
PSNEXT



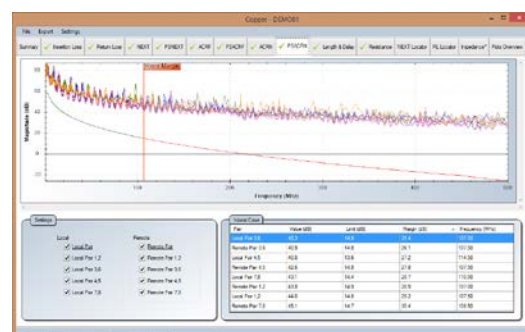
ACRF



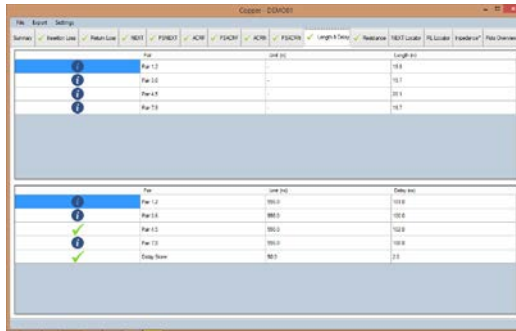
PSACRF



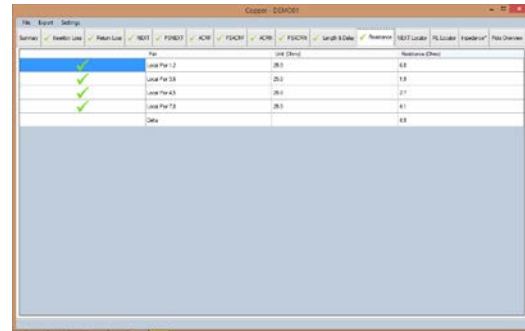
ACRN (ISO only)



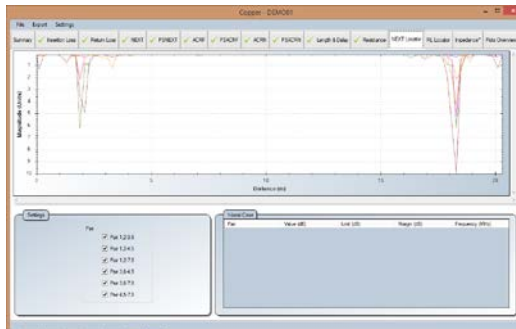
PSACRN (ISO only)



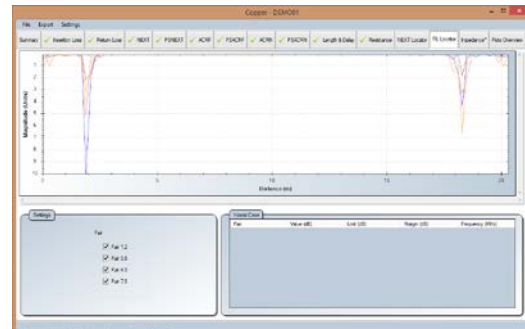
Length & Delay



Resistance



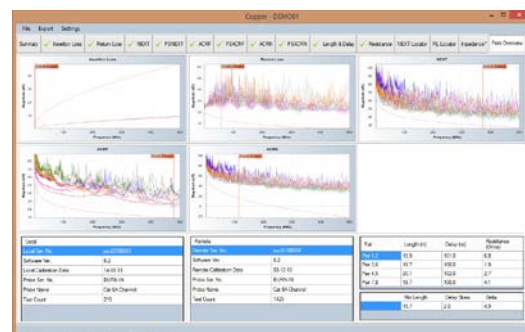
NEXT Locator



RL Locator



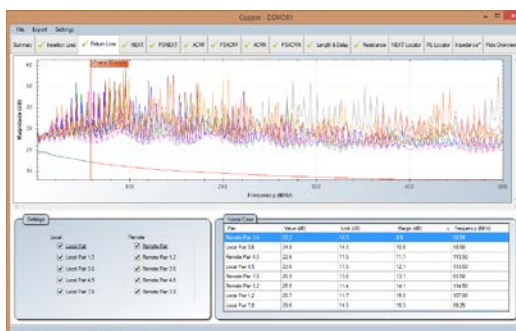
Impedance



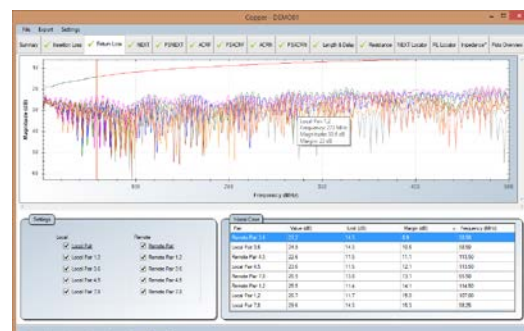
Plots Overview

Inverting Y Axis

1. Go to Settings > Y Axis (Vertical) Orientation > Inverted



Default chart

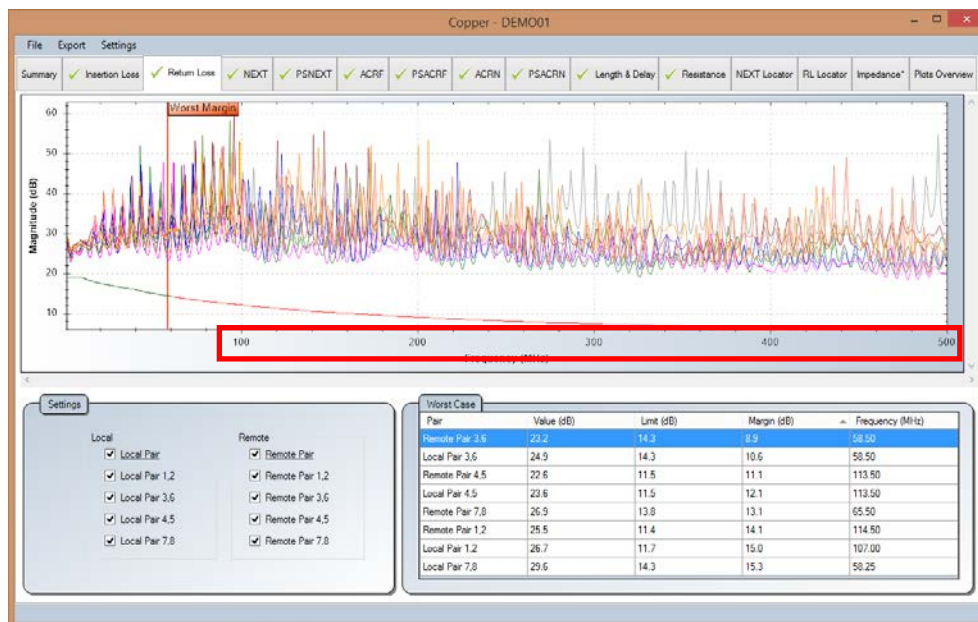


Inverted Chart

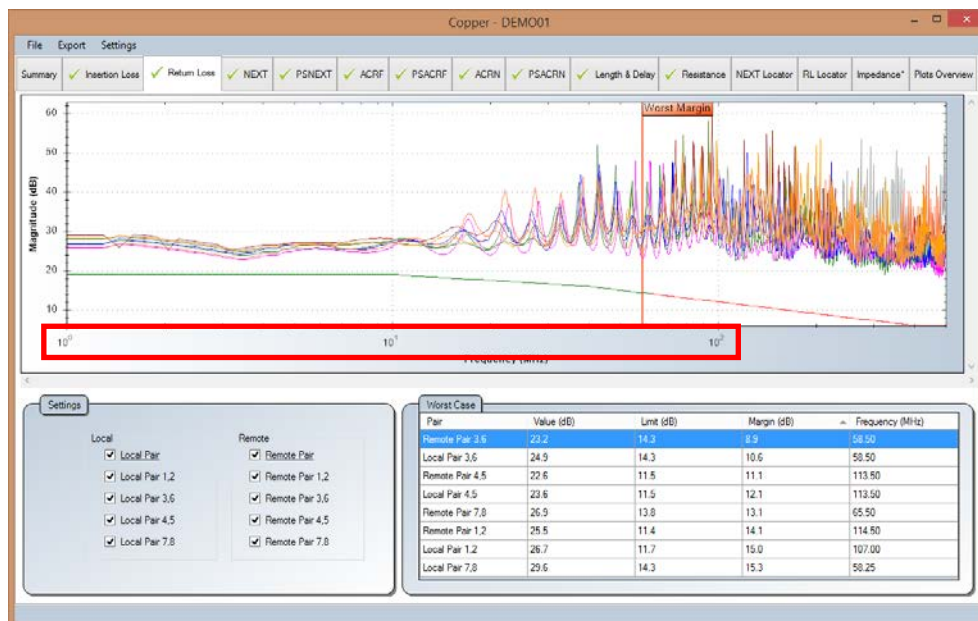
Linear & Logarithmic

1. Go to Settings > X Axis (Horizontal) Orientation

> Linear – default



> Logarithmic



Markers

1. Go to Settings > Markers

> Ethernet Standards – additional markers indicating frequencies of various Ethernet standards will be indicated for reference.

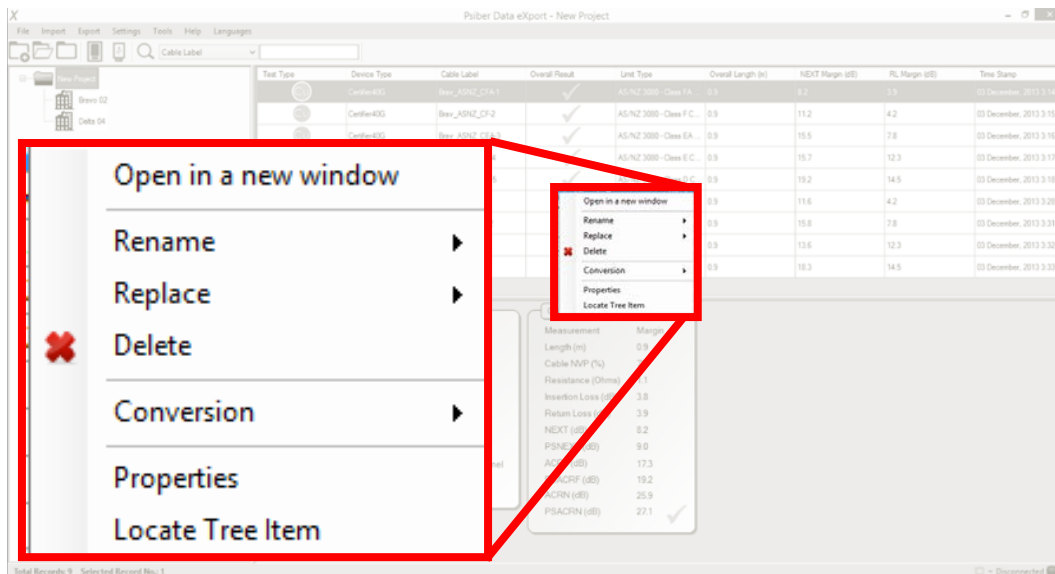


> Worst Markers – default

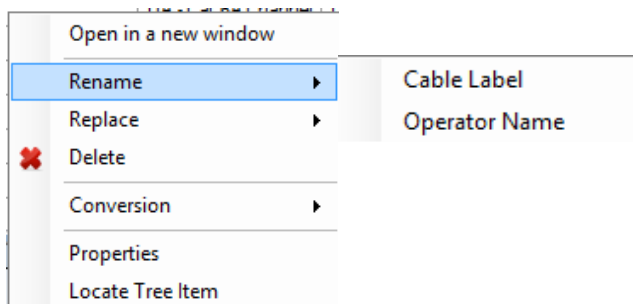


Editing Information

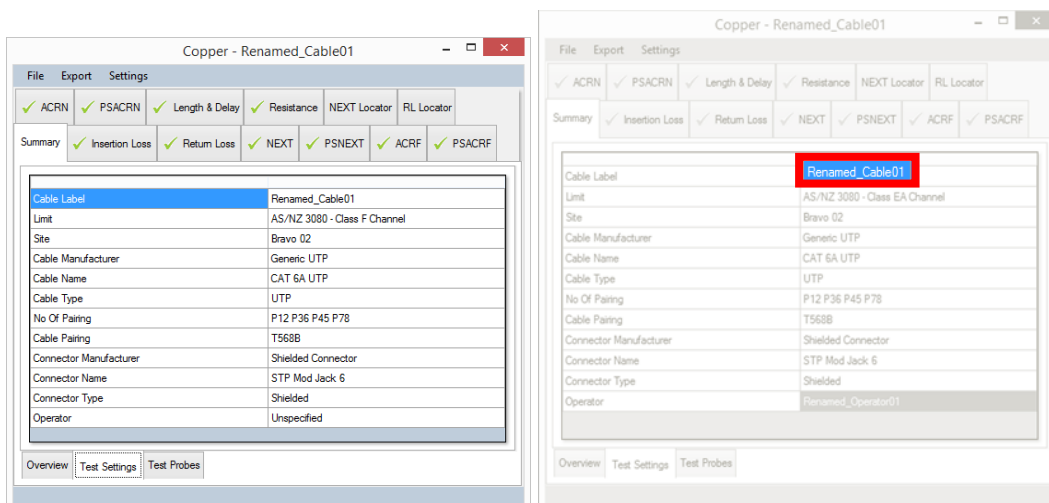
1. Right click at the results selection screen (right panel).



2. Go to Rename > Cable Label to rename the selected cable.
Go to Rename > Operator Name to rename the selected operator.

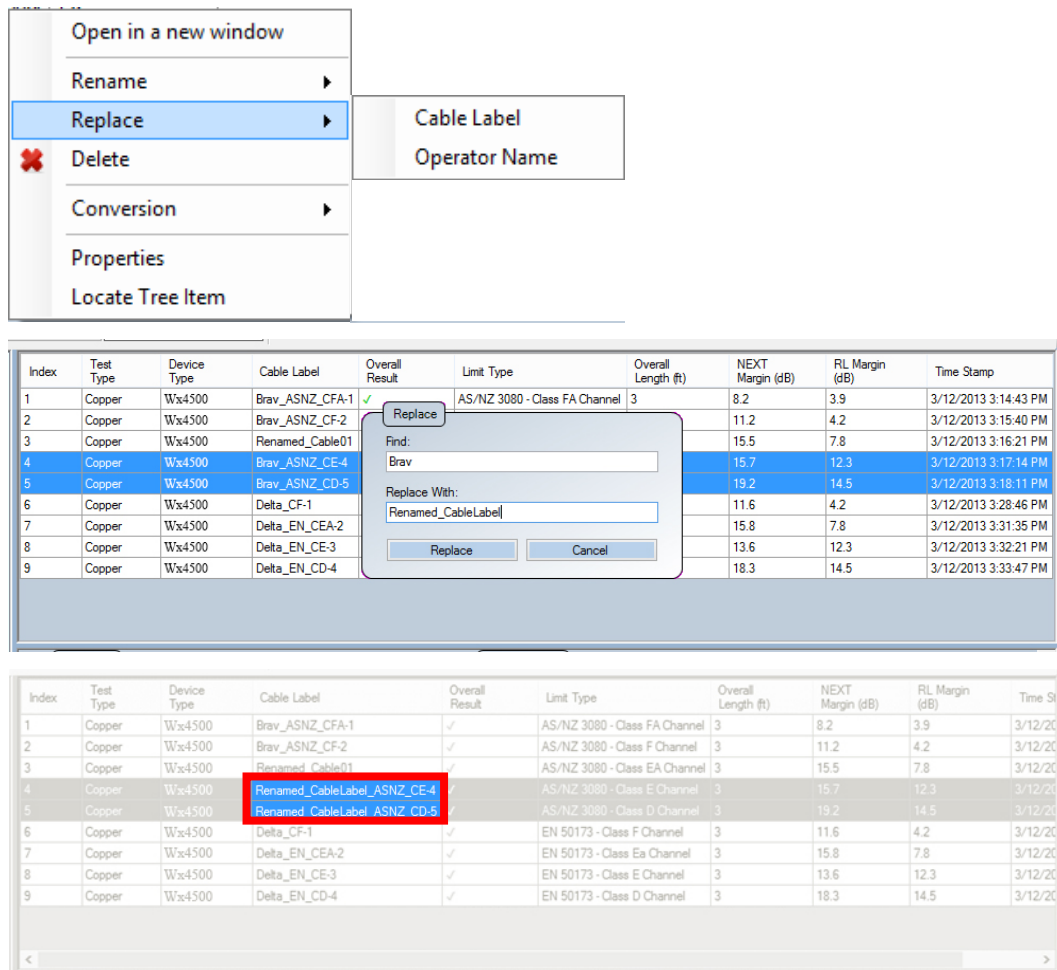


The renamed Cable Label/Operator Name will be also reflected at the 'Test Settings' tab in the detail results.



- Go to Replace > Cable Label to find the label to be replaced on the selected result(s).

Go to Replace > Operator Name to find the name to be replaced on the selected result(s).



The screenshot shows the 'Replace' menu with options: 'Open in a new window', 'Rename', 'Replace', 'Delete', 'Conversion', 'Properties', and 'Locate Tree Item'. The 'Replace' option is selected, and a sub-menu is visible with 'Cable Label' and 'Operator Name' options. Below the menu is a table of test results with columns: Index, Test Type, Device Type, Cable Label, Overall Result, Limit Type, Overall Length (ft), NEXT Margin (dB), RL Margin (dB), and Time Stamp. A 'Replace' dialog box is open over the table, showing 'Find:' with 'Brav' and 'Replace With:' with 'Renamed_CableLabel'. The table data is as follows:

| Index | Test Type | Device Type | Cable Label | Overall Result | Limit Type | Overall Length (ft) | NEXT Margin (dB) | RL Margin (dB) | Time Stamp |
|-------|-----------|-------------|-----------------|----------------|-------------------------------|---------------------|------------------|----------------|----------------------|
| 1 | Copper | Wx4500 | Brav_ASNZ_CFA-1 | ✓ | AS/NZ 3080 - Class FA Channel | 3 | 8.2 | 3.9 | 3/12/2013 3:14:43 PM |
| 2 | Copper | Wx4500 | Brav_ASNZ_CF-2 | ✓ | AS/NZ 3080 - Class F Channel | 3 | 11.2 | 4.2 | 3/12/2013 3:15:40 PM |
| 3 | Copper | Wx4500 | Renamed_Cable01 | ✓ | AS/NZ 3080 - Class EA Channel | 3 | 15.5 | 7.8 | 3/12/2013 3:16:21 PM |
| 4 | Copper | Wx4500 | Brav_ASNZ_CE-4 | ✓ | AS/NZ 3080 - Class E Channel | 3 | 15.7 | 12.3 | 3/12/2013 3:17:14 PM |
| 5 | Copper | Wx4500 | Brav_ASNZ_CD-5 | ✓ | AS/NZ 3080 - Class D Channel | 3 | 19.2 | 14.5 | 3/12/2013 3:18:11 PM |
| 6 | Copper | Wx4500 | Delta_CF-1 | ✓ | EN 50173 - Class F Channel | 3 | 11.6 | 4.2 | 3/12/2013 3:28:46 PM |
| 7 | Copper | Wx4500 | Delta_EN_CEA-2 | ✓ | EN 50173 - Class Ea Channel | 3 | 15.8 | 7.8 | 3/12/2013 3:31:35 PM |
| 8 | Copper | Wx4500 | Delta_EN_CE-3 | ✓ | EN 50173 - Class E Channel | 3 | 13.6 | 12.3 | 3/12/2013 3:32:21 PM |
| 9 | Copper | Wx4500 | Delta_EN_CD-4 | ✓ | EN 50173 - Class D Channel | 3 | 18.3 | 14.5 | 3/12/2013 3:33:47 PM |

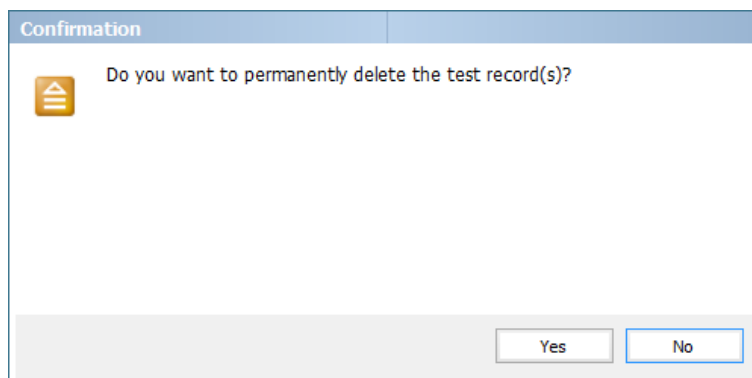
The 'Replace' dialog box shows 'Find:' with 'Brav' and 'Replace With:' with 'Renamed_CableLabel'. The 'Replace' button is highlighted.

Below the table, a second table shows the results after replacement, with the 'Cable Label' column updated to 'Renamed_CableLabel_ASNZ_CE-4' and 'Renamed_CableLabel_ASNZ_CD-5'.

| Index | Test Type | Device Type | Cable Label | Overall Result | Limit Type | Overall Length (ft) | NEXT Margin (dB) | RL Margin (dB) | Time Stamp |
|-------|-----------|-------------|------------------------------|----------------|-------------------------------|---------------------|------------------|----------------|----------------------|
| 1 | Copper | Wx4500 | Brav_ASNZ_CFA-1 | ✓ | AS/NZ 3080 - Class FA Channel | 3 | 8.2 | 3.9 | 3/12/2013 3:14:43 PM |
| 2 | Copper | Wx4500 | Brav_ASNZ_CF-2 | ✓ | AS/NZ 3080 - Class F Channel | 3 | 11.2 | 4.2 | 3/12/2013 3:15:40 PM |
| 3 | Copper | Wx4500 | Renamed_Cable01 | ✓ | AS/NZ 3080 - Class EA Channel | 3 | 15.5 | 7.8 | 3/12/2013 3:16:21 PM |
| 4 | Copper | Wx4500 | Renamed_CableLabel_ASNZ_CE-4 | ✓ | AS/NZ 3080 - Class E Channel | 3 | 15.7 | 12.3 | 3/12/2013 3:17:14 PM |
| 5 | Copper | Wx4500 | Renamed_CableLabel_ASNZ_CD-5 | ✓ | AS/NZ 3080 - Class D Channel | 3 | 19.2 | 14.5 | 3/12/2013 3:18:11 PM |
| 6 | Copper | Wx4500 | Delta_CF-1 | ✓ | EN 50173 - Class F Channel | 3 | 11.6 | 4.2 | 3/12/2013 3:28:46 PM |
| 7 | Copper | Wx4500 | Delta_EN_CEA-2 | ✓ | EN 50173 - Class Ea Channel | 3 | 15.8 | 7.8 | 3/12/2013 3:31:35 PM |
| 8 | Copper | Wx4500 | Delta_EN_CE-3 | ✓ | EN 50173 - Class E Channel | 3 | 13.6 | 12.3 | 3/12/2013 3:32:21 PM |
| 9 | Copper | Wx4500 | Delta_EN_CD-4 | ✓ | EN 50173 - Class D Channel | 3 | 18.3 | 14.5 | 3/12/2013 3:33:47 PM |

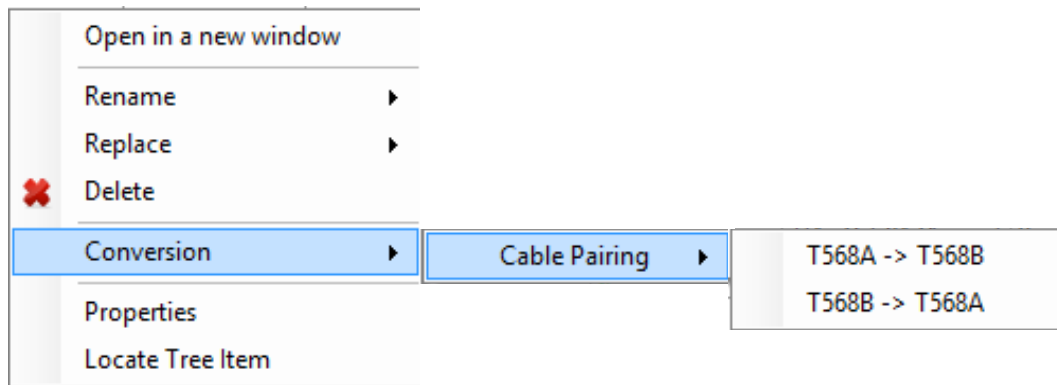
The replaced Cable Label/Operator Name will also be reflected at the 'Test Settings' tab in the detail results.

- Go to Delete to permanently delete a test result. Click 'Yes' to proceed.

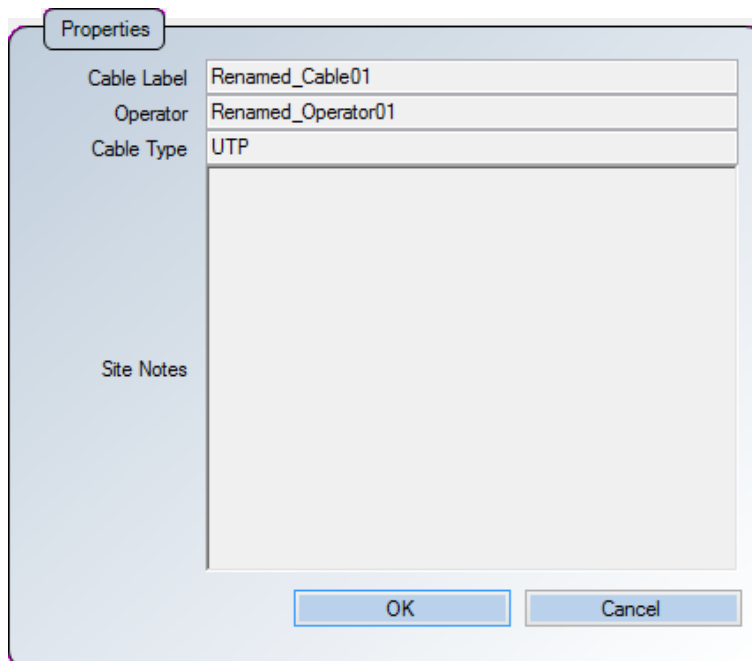


The screenshot shows a 'Confirmation' dialog box with the text: 'Do you want to permanently delete the test record(s)?'. There are 'Yes' and 'No' buttons at the bottom.

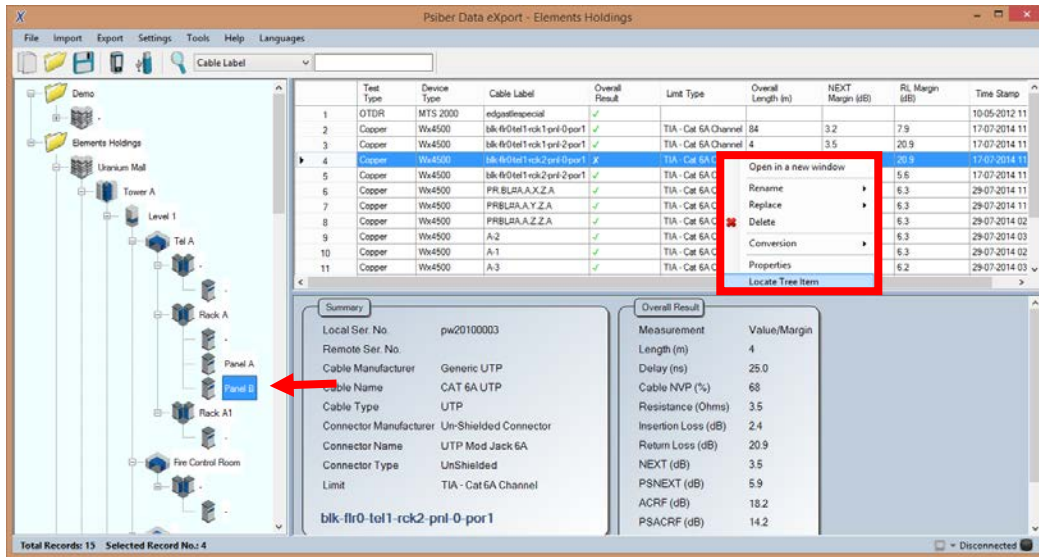
5. Go to Conversion > Cable Pairing to change between T568A to T568B cable pairing and T568B to T568A pairing. Default setting uses T568B cable pairing.



6. Go to Properties to view user editable information on the selected result.

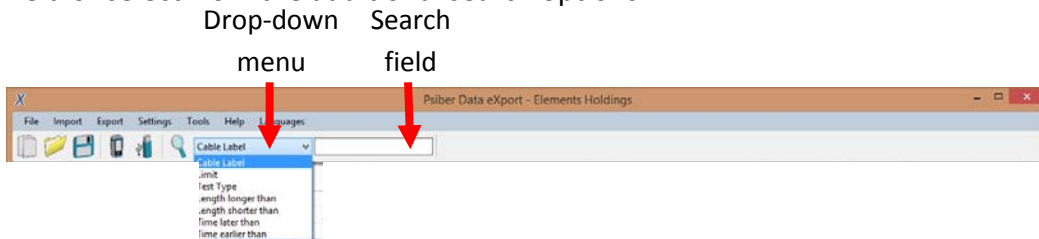


- Go to Locate Tree Item to find where the selected cable label is located within the project hierarchy tree



Searching for Information

- Select type of search from the drop-down menu and input search value in the search field or select from the additional search options.

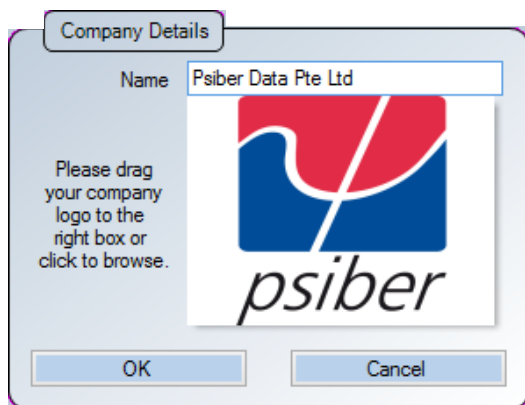


- Press 'Enter' or click the 'Search' icon on the left to begin search.

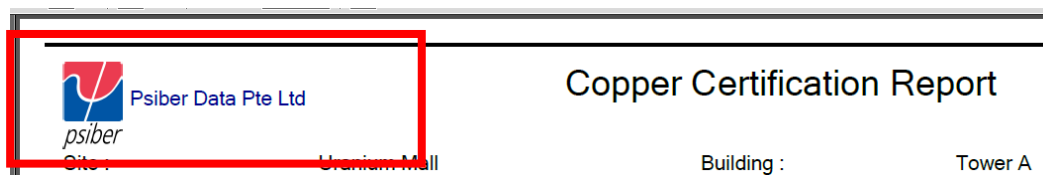
Chapter 4: Setting Preferences

Personalising the Test Results

1. Go to Settings > Company Details to personalise test results with your corporate logo and company name.
2. Enter Company name and click on the empty space to browse for image of the logo.
Click 'OK' to save.



3. Your Company name and corporate logo will be displayed on the top left hand corner of the next result exported.



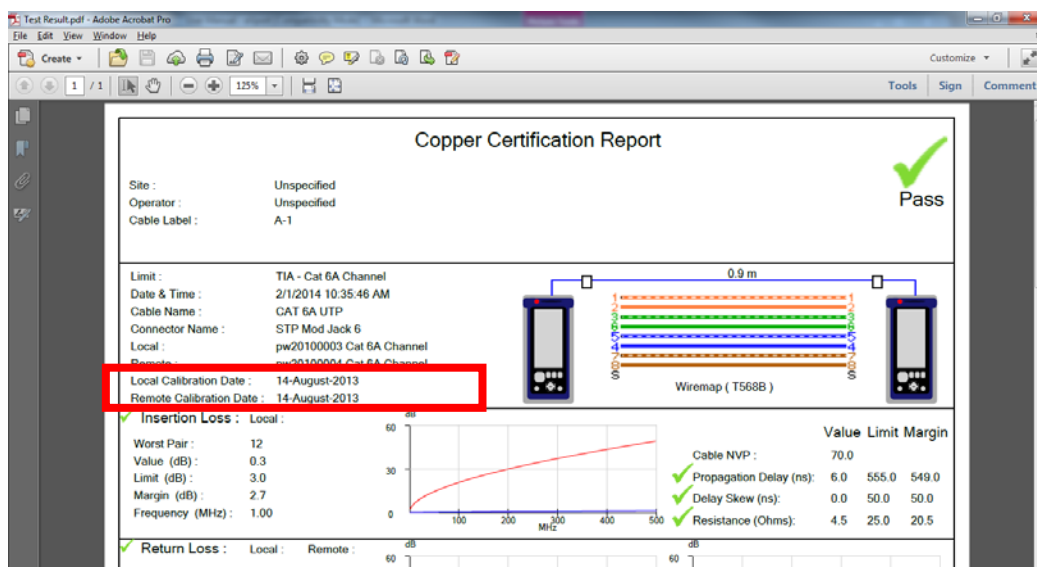
Choosing the Length Units

- Go to Settings > Length Unit to choose length units to be displayed in Metres or Feet on the test results.

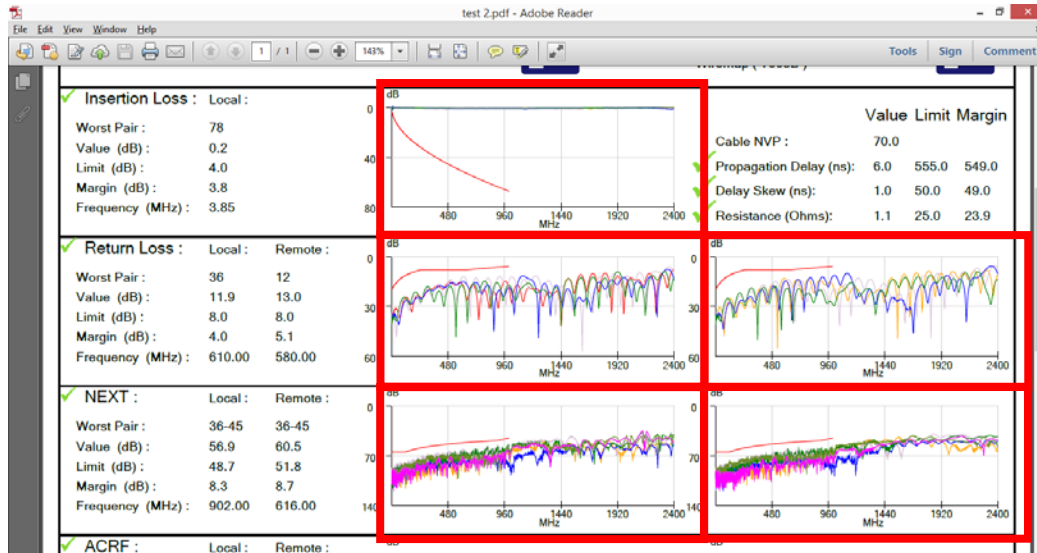
| Overall Result | | Overall Result | |
|---------------------|--------|---------------------|--------|
| Measurement | Margin | Measurement | Margin |
| Length (m) | 0.9 | Length (ft) | 3 |
| Cable NVP (%) | 70 | Cable NVP (%) | 70 |
| Resistance (Ohms) | 1.1 | Resistance (Ohms) | 1.1 |
| Insertion Loss (dB) | 3.8 | Insertion Loss (dB) | 3.8 |
| Return Loss (dB) | 3.9 | Return Loss (dB) | 3.9 |
| NEXT (dB) | 8.2 | NEXT (dB) | 8.2 |
| PSNEXT (dB) | 9.0 | PSNEXT (dB) | 9.0 |
| ACRF (dB) | 17.3 | ACRF (dB) | 17.3 |
| PSACRF (dB) | 19.2 | PSACRF (dB) | 19.2 |
| ACRN (dB) | 25.9 | ACRN (dB) | 25.9 |
| PSACRN (dB) | 27.1 | PSACRN (dB) | 27.1 |

Choosing the Report Format

- Go to Settings > Report Format to choose the format of the report.
 - > Calibration Date (default) – last calibration date of WireXpert WX-series will be indicated on the report



- > Y-axis Inverted – all test results will generate charts with inverted Y-axis

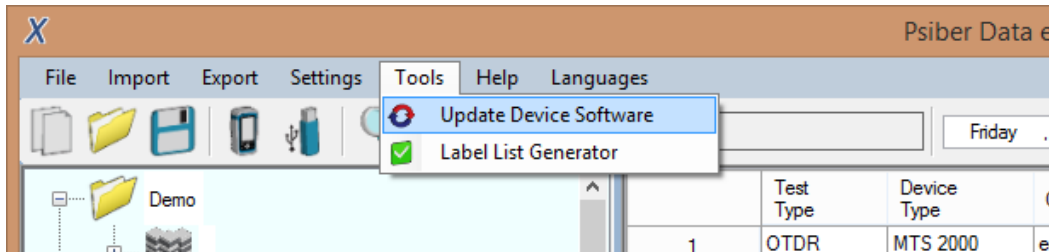


> Plots – selecting High Resolution will generate PDF report in the highest printable quality or Low Resolution for PDF reports in compressed file size.

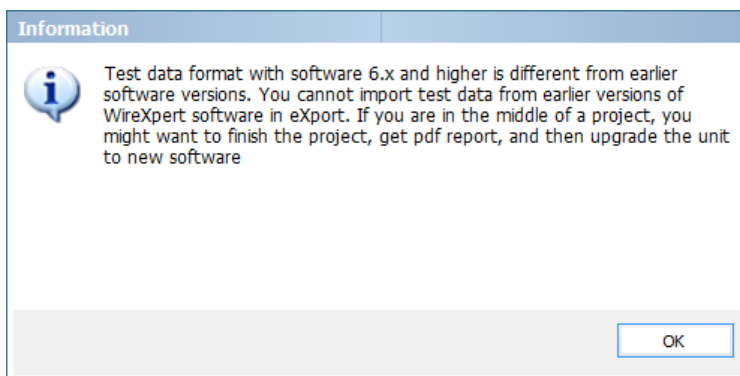
Chapter 5: Special Operations

Updating the Device Software

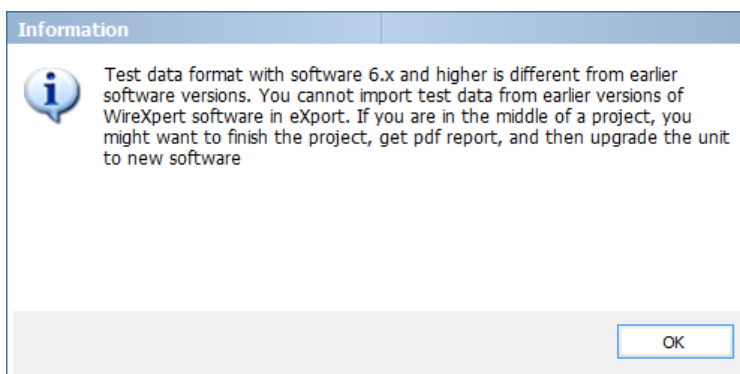
1. Go to Tools > Update Device Software



2. Please ensure an USB flash drive has been connected to your workstation before proceeding with update.
3. Click 'OK' after reading the warning message to proceed.



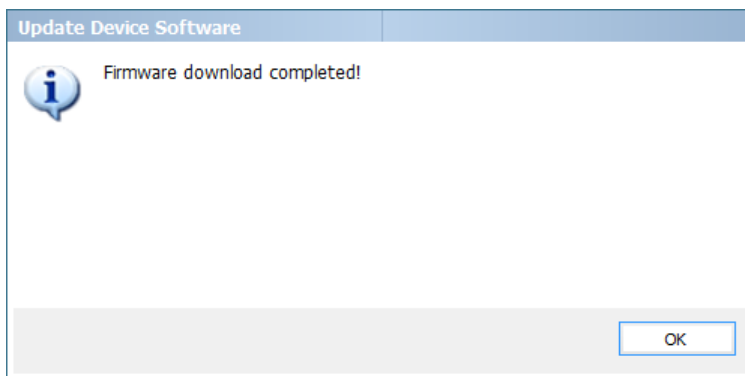
4. Click 'OK' to proceed with update.



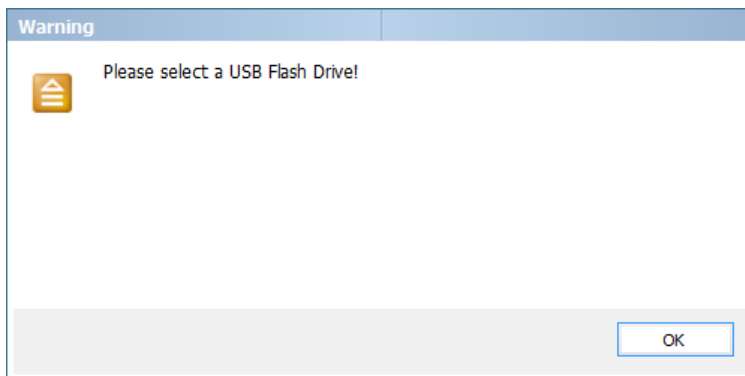
5. Status bar will indicate the "Processing" status during the upgrade.



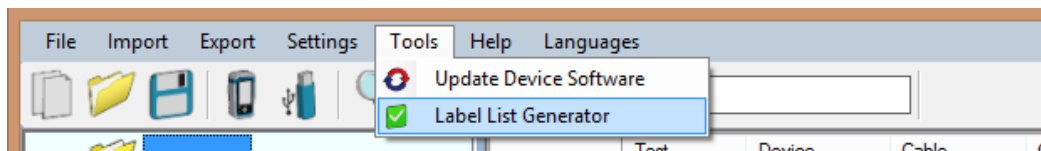
6. You will be informed when the upgrade is complete. Click 'OK' to proceed.



7. In the event the USB flash disk is not present, you will be reminded to insert one.



List-Based Testing - Hierarchy



Go to Tools > Label List Generator

The Label List Generator generates cable labels in customisable hierarchical (building name-> floor-> telecom room-> rack-> panel-> port) order before conducting cable certifications, reducing effort from keying labels after every test. The pre-defined labels imported into the device will prevent duplicate testing when conducting in non-sequential orders.

Label Tiers provides hierarchical tiering of the labels. Uncheck tier if not applicable.

“Delimited with” is the text separator between each tier of labeling. Leave blank if not applicable. Alpha-numeric and ASCII characters can be used.

“Start with” is the first label of the tier. Only alpha-numeric characters can be used.

“End with” is the last label of the tier. eXport will increase the number of labels depending on the input. Only alpha-numeric characters can be used.

Example:

| Start With | End With | Labels Generated |
|-----------------------|-----------------------|--|
| BuildingName-Floor_01 | BuildingName-Floor_10 | 10 |
| BldName-L01-RoomA | BldName-L01-RoomF | 6 <i>Labels ending with alphabets will also be increased.</i> |
| BldName-#01-RoomA-A1 | BldName-#02-Room-B5 | 20 <i>Labels generated:</i> <i>BldName-#01-Room-A1~A5</i> <i>BldName-#01-Room-B1~B5</i> <i>BldName-#02-Room-A1~A5</i> <i>BldName-#02-Room-B1~B5</i> |

List-Based Testing – Point to Point

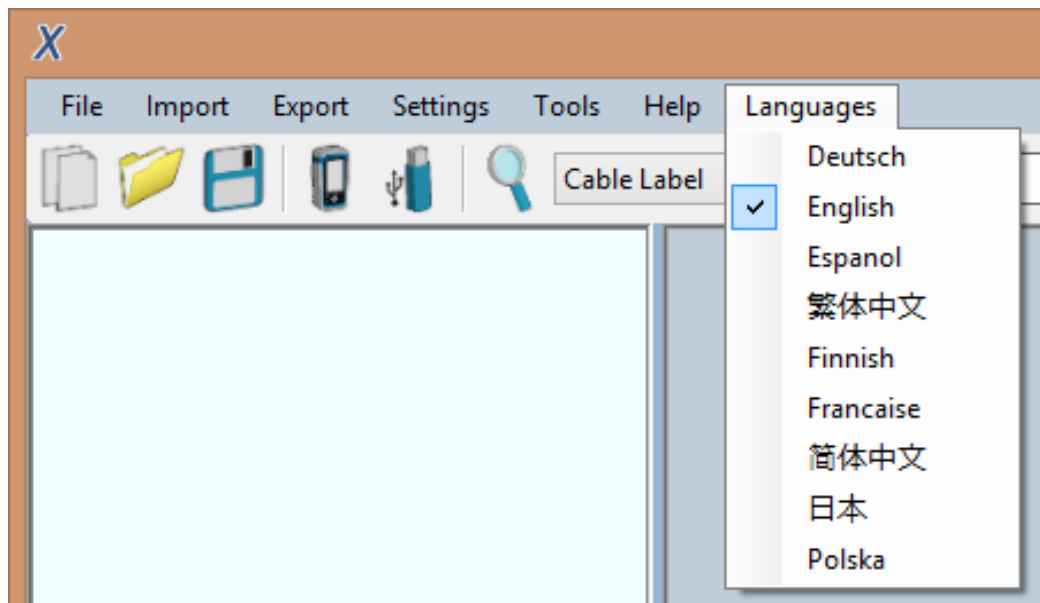
The Point-to-Point label generator creates labels for straight forward connections from Point A to Point B such as Backbone or connections terminations between two panels.

Chapter 6: Localisation

Selecting the Language

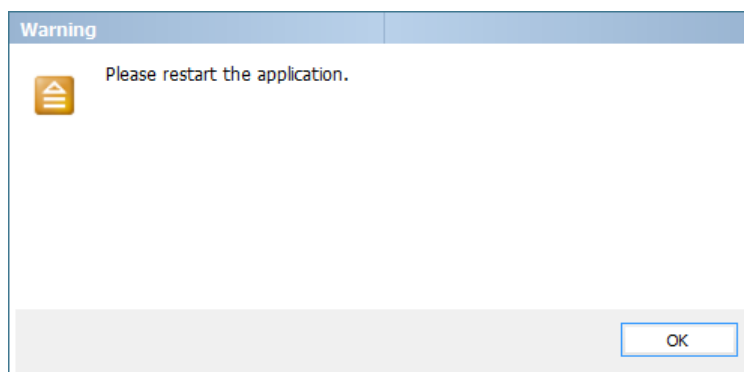
Psiber Data has made the following languages available – Deutsch, Finnish, Simplified & Traditional Chinese, Francaise to the default English.

1. Go to Languages and choose your preferred language.



2. You will be prompted to restart eXport.

Click 'OK' to restart.

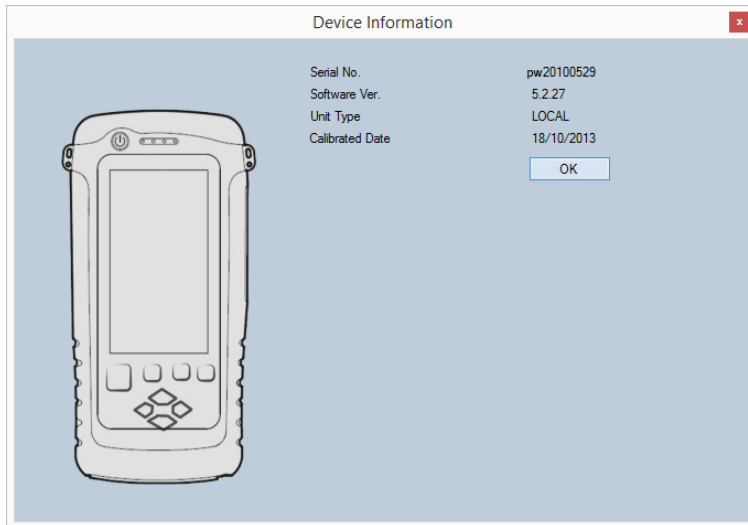


Viewing the Device on your Workstation

1. After WireXpert WX-series is connected to your workstation, click the device icon next to the **Connected** indication on the status bar.



2. Choose 'Device Information' to view the device's serial number, software version and calibration date.



Choose 'Remote Display' to access the Local unit remotely via your workstation. Accessing this option will allow advanced functions such as screen capturing (image), action recording (video), screen magnifying (zoom), etc.